

QUATTRO

User Manual



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Intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use to the presence of un-insulated "dangerous voltage" within the unit.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE ANY COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD. DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PRESENT BLADE TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. TO PRVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT FULLY INSERT.

SAFETY INSTRUCTIONS AND GUARRANTY INFORMATION

1. Read Instructions. All the safety and operating instructions should be read before this product is operated.
2. Retain Instructions. The safety and operating instructions should be retained for future reference.
3. Heed Warnings. All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions. All operating and use instructions should be followed; failure to do so can void this guarantee.

5. Water and Moisture. The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.

6. Carts and Stands. The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. Wall or Ceiling Mounting. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.



7. Heat. The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

8. Object and Liquid Entry. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

9. Damage Requiring Service. The appliance should be serviced by qualified service personnel when:

- A: The power-supply cord or the plug has been damaged; or
- B: Objects have fallen, or liquid has been spilled into the appliance; or
- C: The appliance has been exposed to rain; or
- D: The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E: The appliance has been dropped, or the enclosure damaged.

10. Servicing. In accordance with E.U. directives the user shall not attempt any service to the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. Failure to follow this instruction can void this guarantee.

11. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is the manufacturer's instructions have been adhered to.

12. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. The manufacturer will NOT take responsibility for non-recommended accessories.

13. Accessories. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product.

14. Lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

15. Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

16. Use only cables in accordance with present standards, ask your dealer.

17. Do not use right away the equipment in case has been transported from a cold environment to a hot one. Moisture will appear, let it off for a while.

18. Cleaning. Do not use cleaning sprays where the controls are. The appliance should be cleaned only as recommended by the manufacturer. Clean by wiping with a cloth slightly damp with water. Avoid getting water inside the appliance.

19. Audio ON: When installation is complete and you are about to start using the unit. Before switching ON the unit DO lower the Mains and Headphones volume controls. Failure to do so can result in hearing injuries or amplification stage damage.

20. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. For AC line powered units - Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.

22. To prevent fire or shock hazard. Do not use this plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to present blade, match wide blade plug to wide slot fully insert.

TERMS OF USE

Your unit comes with a serial number stucked on it. Do not tear the serial number; this can result in void guaranty.

SAFE AND EFFICIENT USE

Select carefully the emplacement of the unit. Avoid placing it under direct sun exposure. Avoid humid and damp places or rough environments with excessive dust and vibrations and excessive heat or cold. Also keep it away from humming sources like the motors of whirl washers or transformers or similar appliances.

No liquids must be close to the unit so that they can be spilled on it. To completely disconnect the unit from you mains supply unplug the plug of the adapter from the wall electric outlet.

The switch that controls the supply of electrical power to the unit must be at easy reach in case is necessary a fast switch off.

WARNING: do not place the unit in a closed environment where is difficult to access the wall outlet.

Do not open the unit; it can cause personal injuries or the damage of the equipment.

When unplugging the power supply cable of the adaptor from the wall outlet, does not pull the cable. Take the plastic body of the plug and unplug it.

Do not handle roughly the controls of the unit you can shorten their lifespan.

Before moving the equipment, remember to unplug all cables.

Do not use chemical solvent to clean the unit. A dry and clean cloth will do fine.

Safe this manual at reach so you can go back to the basic in case you need it.

PRELIMINARY

Check the contents of the QUATTRO box and find the following items:

- 1- Controller
- 1- Installation and instructions CD
- 1- Traktor Overlay
- 1- Quick guide poster
- 1- USB Cable (PC/MIDI)
- 1- Transfomer AC/DC

FIRST STEPS

Equipment installation

Install the equipment on a stable and horizontal surface.

Avoid placing it under direct sun exposure humid and damp places or rough environments.

Place the equipment as far away as possible of other audio equipment as radios TVs etc.

This product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

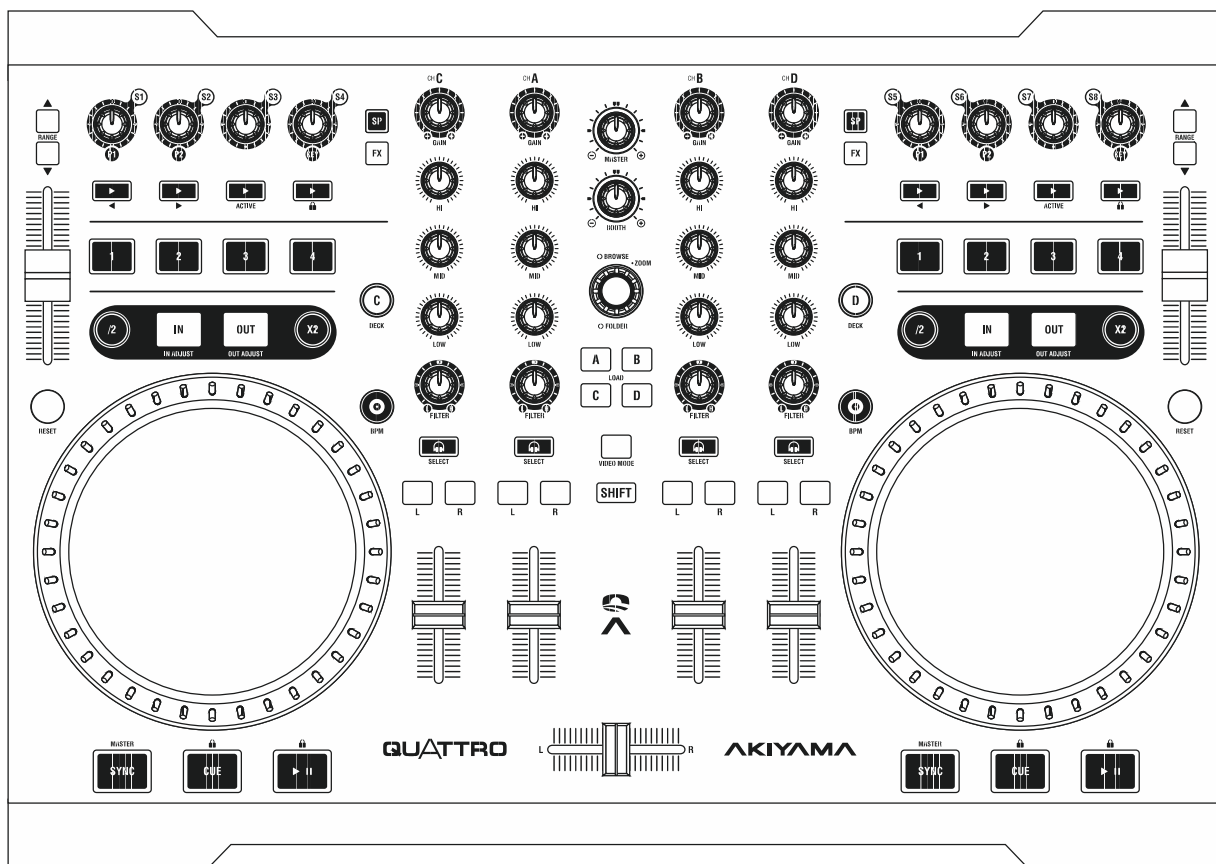


The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

1. CONTROLS AND CONNECTIONS

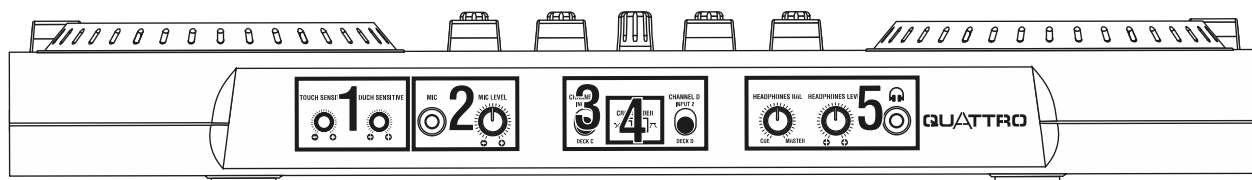
1.1. Top panel



1. Controls distribution for an optimal use of Virtual DJ and Traktor.
2. Touch sensible wheel with sensibility adjustment and 600 step resolution.
3. Big rubber buttons for longer lifespan.
4. Control of up to 4 Decks. MIDI notes are sent through different MIDI channels upon selection; DECK A/B or C/D. LEDs status are refreshed by firmware.
5. 8 potentiometers and 8 buttons independent of deck status to control effects and/or samples.

6. 4 channel MIDI section with which standard mixer functions can be controlled like 3-band equalizer, gain, volume fader and crossfader. Furthermore, there is a knob per channel to control the "Filter" effect. Master and Booth level controls can be found in the mixer section.
7. The 5 buttons and 1 encoder located in the middle of the mixer section can be used to browse and load songs as well as to control the loop recorder section of Traktor PRO 2.
8. Two functions can be assigned to the same control thanks to the SHIFT button.

1.2. Front panel



1. TOUCH SENSITIVITY

- Turn TOUCH SENSITIVE knobs to adjust the sensitivity. When adjusting the sensitivity, be conscious of extreme settings which may affect your performance. Setting the sensitivity too high (clockwise) would engage the touch sensitivity with the hand just above the wheel. Setting the sensitivity too low (anticlockwise) may not engage the touch even while pressing firmly on the wheel.

2. MICROPHONE

- Connect a microphone into the MIC input. Microphone signal is mixed with the Master output.
- Volume can be adjusted by turning the MIC LEVEL knob.

3. LINE IN SELECT

- Activate or deactivate the Line IN 1 on Deck C or Line IN 2 on Deck D.

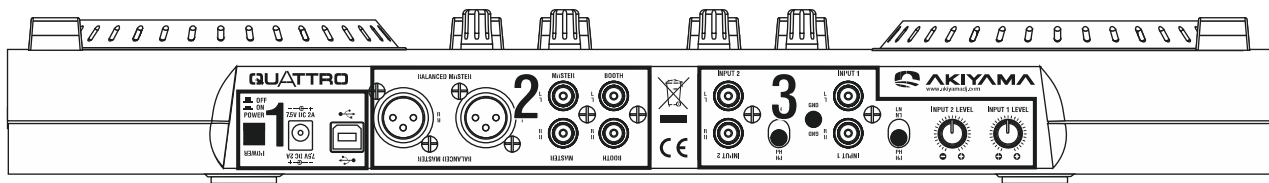
4. CROSSFADER

- Select the curve of the crossfader: smooth or cut.

5. HEADPHONES

- Connect your headphones to the jack.
- Adjust the amount of signal corresponding to MASTER or HEADPHONES by turning the HEADPHONES BAL knob.
- Volume can be adjusted by turning the HEADPHONES LEVEL knob.

1.3. Rear panel



1. POWER

- Connect the device to your computer using the USB connection.
- Connect the supplied power supply into DC IN for external power supply.
- Use the POWER button to turn on/off the device.

2. OUTPUTS

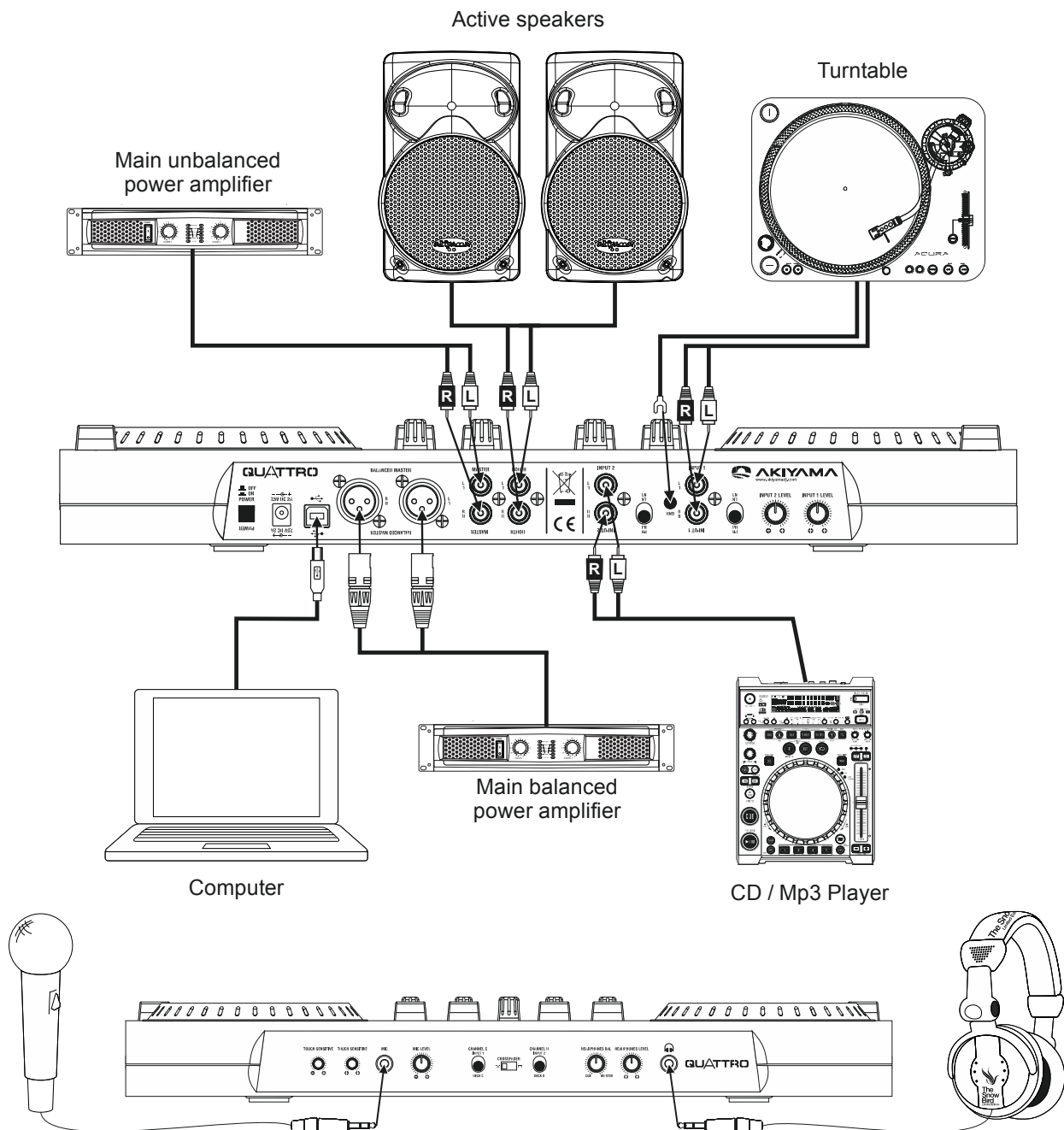
- Connect an amplifier, active speakers or an external mixer to the RCA outputs.
- Use the XLR connector when you will be driving an amplifier or other audio equipment with a balanced input, or whenever

you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

3. INPUTS

- Connect any external source to the RCA inputs.
- Use LN/PH switches to select the input level depending on the connected source.
- Be sure to connect turntable ground leads to either or both of the two available ground terminals. This will reduce the humming and popping noises associated with magnetic phono cartridges.
- Turn the INPUT LEVEL knobs to modify the gain of the input.

1.4. Connections



ATTENTION. Always unplug the unit before connecting the signal cables, otherwise can result in equipment damage.

1. If you need to change the signal connector first unplug the unit from the power supply; Either the USB or the external adapter.

2. We strongly recommend the use of quality cables, the sound quality can suffer from cheap cables.

3. Do not use excessive long cables. Check for a firm fixing of the connectors. Poor connection can cause noise like the typical "hum" or sound interruptions. Both scenarios can result in loudspeaker damage.

NOTE: Use only the supplied cables for power supply through external adapter or USB to computer. Manufacturer cannot take responsibility for any damage caused by use of non-homologated cables.

2. SOFTWARE INSTALLATION AND SETUP

Before you can start using Akiyama QUATTRO, it is necessary to install Akiyama ASIO drivers to optimize the performance of the sound card of QUATTRO.

Also you will need a DJ Software. We will explain how to install Virtual DJ LE and how to configure Virtual DJ LE, Virtual DJ PRO and Traktor PRO 2.

2.1. QUATTRO Akiyama ASIO Drivers

After connecting QUATTRO to your computer USB port, the hardware will be recognised as an audio device. Now you can start using QUATTRO, however we strongly recommend the installation of the purpose designed QUATTRO Akiyama ASIO drivers. If you are going to use the inputs then you must install the QUATTRO Akiyama ASIO drivers.

For multi soundcard configurations, download the generic Akiyama ASIO Drivers for free at www.akiyamadj.com. You will find more information about the Akiyama ASIO drivers in the manual that is installed together with the drivers.

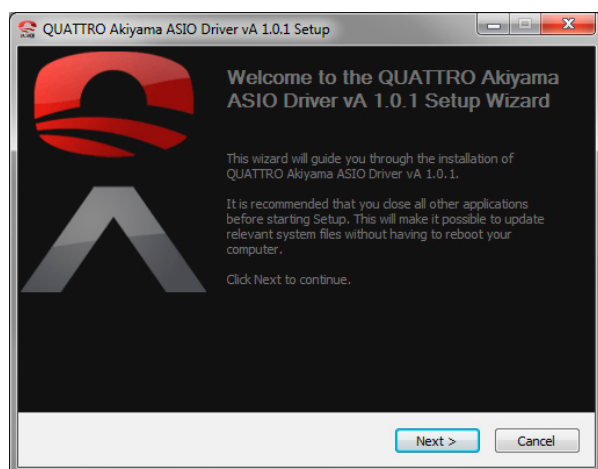
System Requirements:

In order to successfully run QUATTRO Akiyama ASIO Drivers, you need a WDM-compatible operating system, such as Win98SE /ME /2k /XP /2003 /XP64/ Windows Vista x86/x64 or Windows 7 x86/x64.

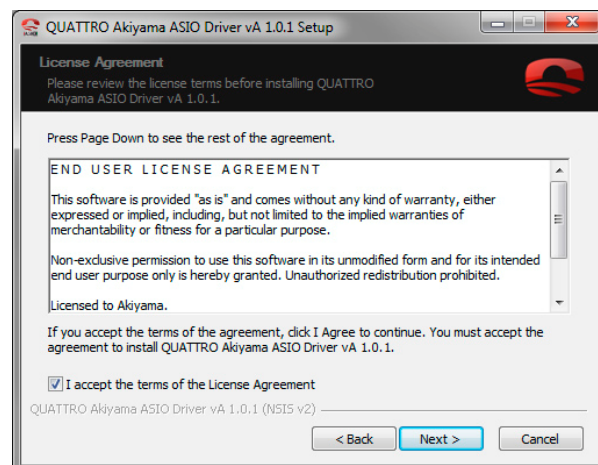
2.1.1. Akiyama ASIO drivers' installation

Double click the icon of the file:

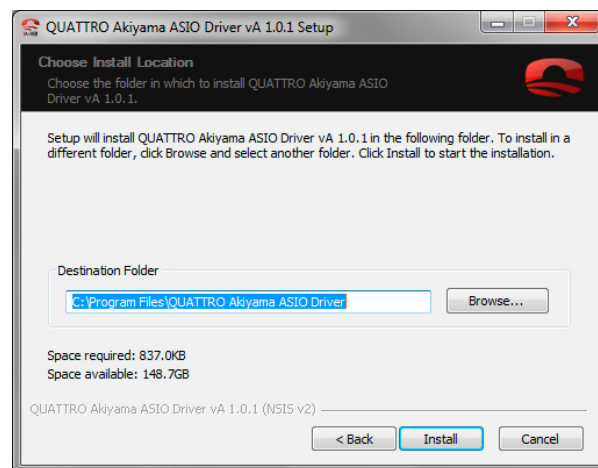
Quattro_Akiyama_ASIO_Driver_Setup.exe. Installation will start at once. Firstly, it will appear the welcome window as seen below.



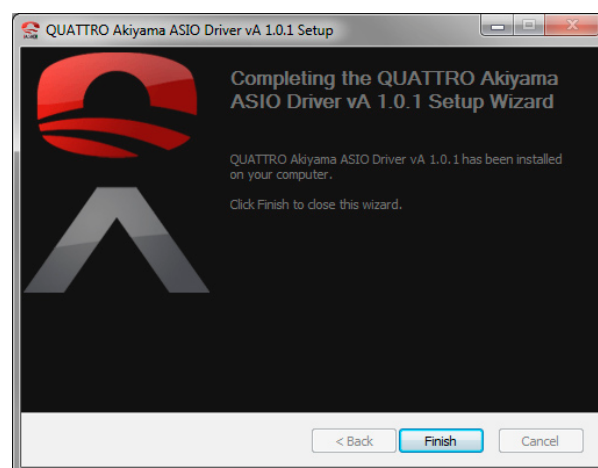
Before click "Next" read the information at welcome window. While installing the drivers we recommend you close all other applications running in your computer. This will enable important file upgrades without the need to reboot the computer. Select "Next" to start the installation. Following license agreement window will appear.



Select the accept box and press "Next".



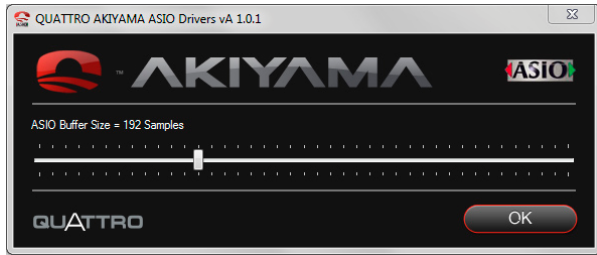
Select the folder where the driver will reside, by default it will be: C:\Program Files\ QUATTRO Akiyama ASIO Driver \ To select another folder click "Browse..." and search for the desired folder. Following select "Install".



Finally press "Finish" to exit install wizard.

2.1.2. Akiyama ASIO drivers Configuration

At the DJ Software select drivers' configuration and the following window will appear.



Set "ASIO Buffer Size". There is not an optimal buffer size since this parameter will depend upon many factors. As a rule of thumb lower the "ASIO Buffer Size" until you can hear noises and distortion when playing audio. When this happens, raise a little the "ASIO Buffer Size" until no unwanted sound appears at the audio. To exit press "OK".

Next you have to configure the inputs and outputs as explained in the sound card configuring chapter of the software to be used.

2.2. Virtual DJ

There is a purpose built Virtual DJ LE for QUATTRO. In case you have a license for Virtual DJ PRO the software will automatically identify QUATTRO. We will go through the different steps to install and configure Virtual DJ LE and PRO to be controlled by QUATTRO.

Minimum system requirements for Windows:

Intel® Pentium® 4 or AMD Athlon™ XP processor
1024x768 resolution
DirectX compatible soundcard
512 MB de RAM.
50 MB free on the hard drive.
Operating System: Microsoft® Windows XP SP3 or newer.

Minimum system requirements for MAC:

Intel® processor
1024x768 resolution
CoreAudio compatible soundcard
1024MB RAM
50 MB free on the hard drive.
Operating System: Mac X v10.5.x or newer.

2.2.1. Virtual DJ LE installation

We will go through the steps to install Virtual DJ LE.

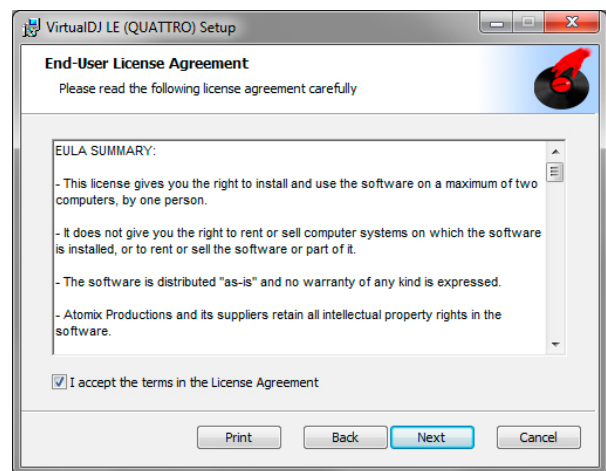
Note: You must uninstall any Virtual DJ LE you have installed in your PC before you install the Virtual DJ LE (QUATTRO) version. There can be only one Virtual DJ LE installed in each PC.

Windows Installation

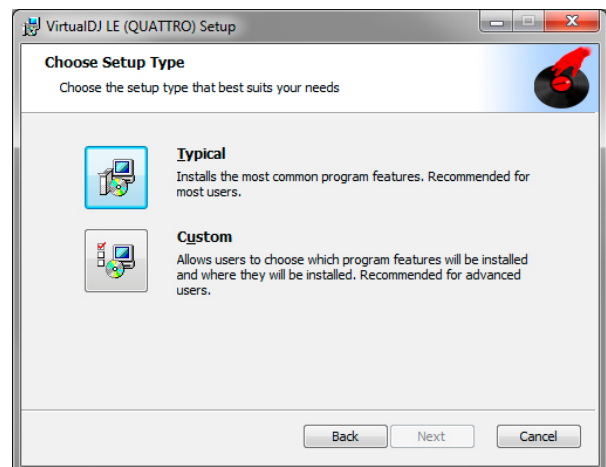
Execute the Virtual DJ LE file clicking the icon install_virtualdj_le_vx.y.z.msi where x.y.z is the software version. Installation will start with a welcome window as seen below:



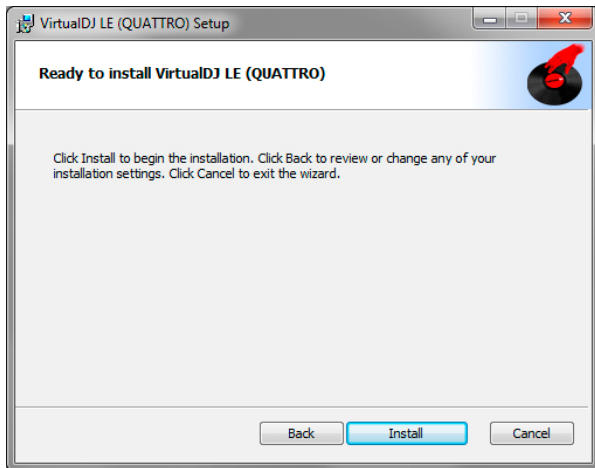
Select "Next" to start installation. Following the license agreement will show up.



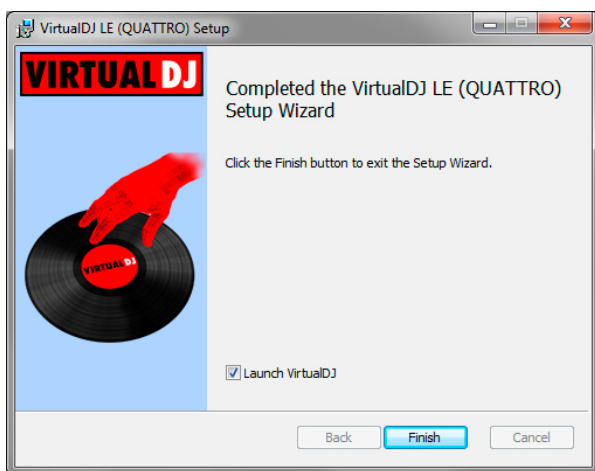
Select the accept box and press "Next"



Type of installation is selectable; we recommend you start with "Typical". If in later installation you need to select concrete units to install you shall use "Custom" option.



Press "Install", installation will start.



Once program is installed you can choose to launch it or exit. Select "Launch VirtualDJ" to start it.

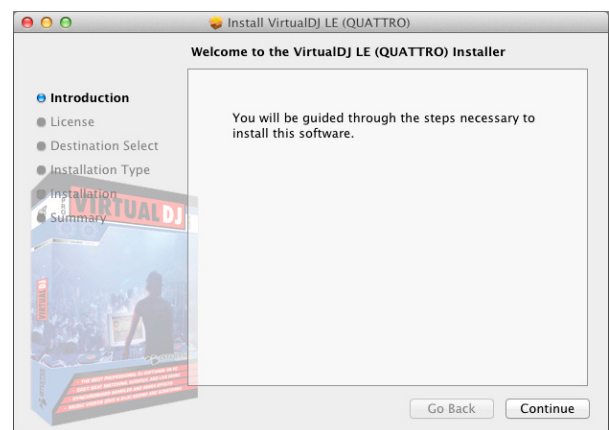


The first time you run the program a window will require you to fill up the serial number that is supplied with your QUATTRO (find it at the label of the supplied CD). Fill it and press OK. Virtual DJ LE for QUATTRO will open:

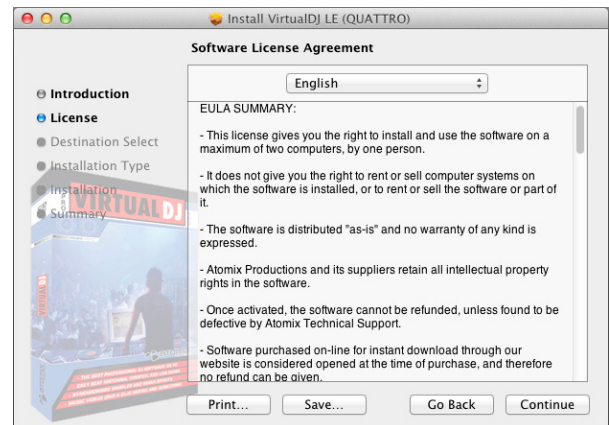


MAC Installation

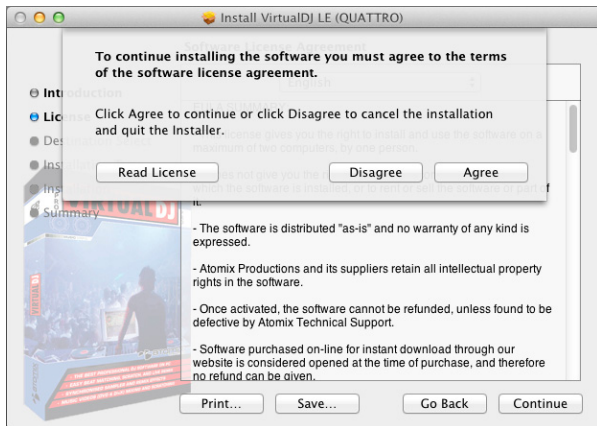
Execute the Virtual DJ LE file clicking the icon install_virtualdj_le_vx.y.z.pkg where x.y.z is the software version. Installation will start with welcome window as seen below.



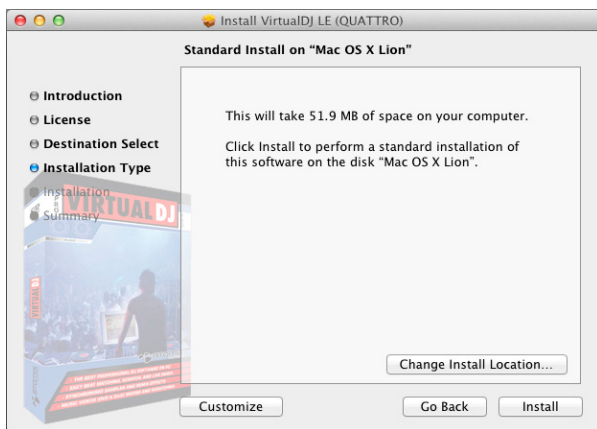
Select "Continue" to start installation. Following license agreement window will pop up.



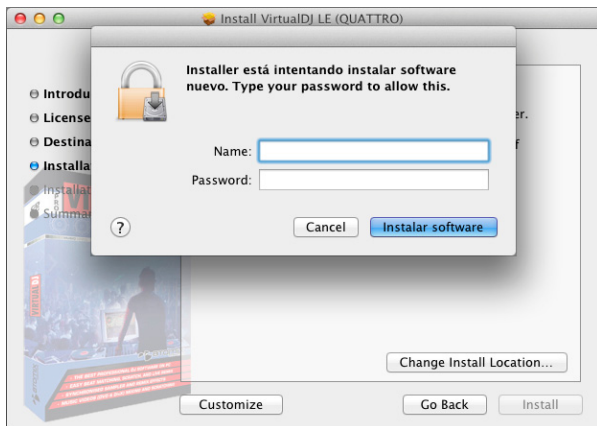
Select "Agree" and continue with installation wizard.



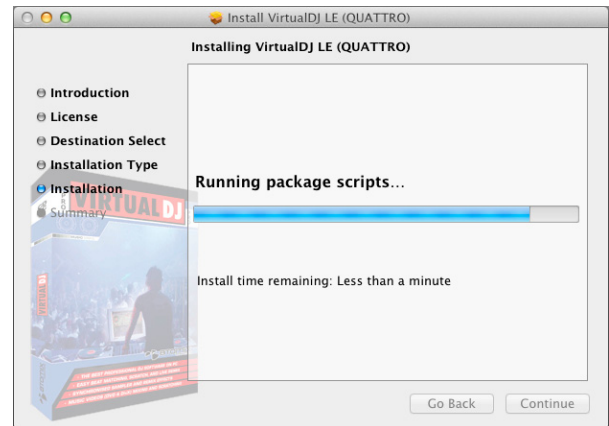
Following will appear a window showing the type of installation to choose. You can change/select the folder where it will reside the software, or press "Install" to commence at once.



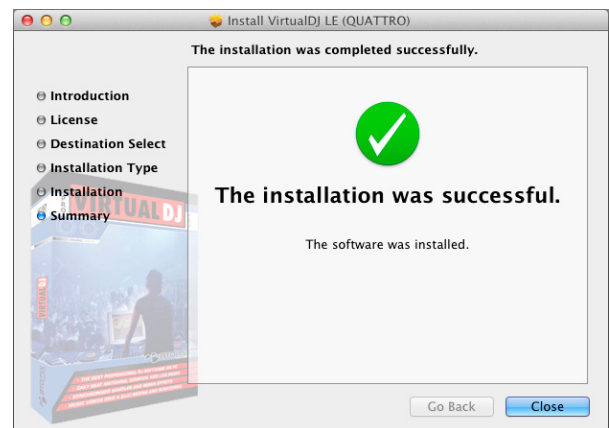
For introducing changes at the installation wizard you have to fill your name and password.



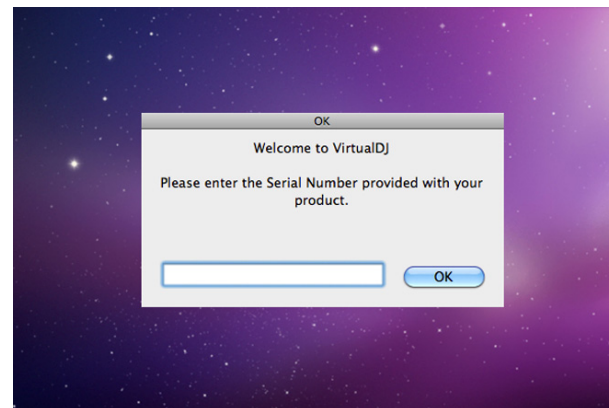
Meanwhile Virtual DJ LE is in process of install you will see the following window.



When install is complete and successful you will see a message as seen below.



Fist time you run the software a window as seen below will pop up. Fill up serial number provided with your QUATTRO (find it at the label of the supplied CD) and then click OK.



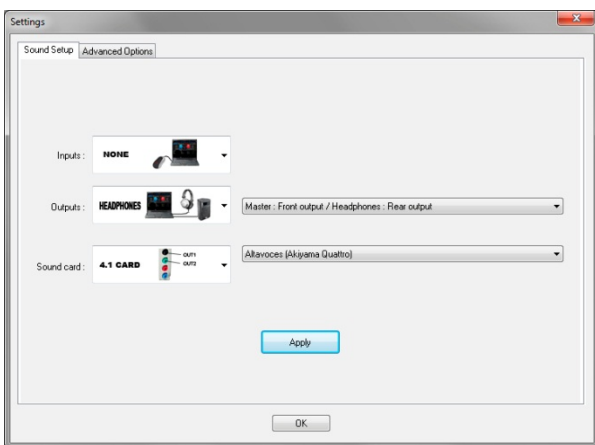
Afterwards, Virtual DJ LE for QUATTRO will open:



2.2.2. Virtual DJ LE Configuration

Once Virtual DJ is launched QUATTRO sound card settings are automatically configured. If it does not work select CONFIG to access the window below.

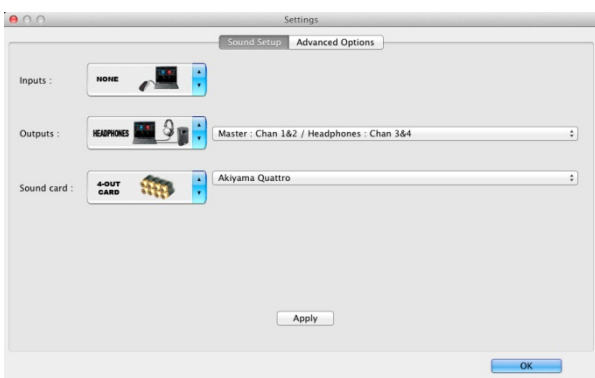
Windows



Check that the following options are selected:

- Outputs → HEADPHONES → Master: Frontal output / Headphones: Rear output.
- Sound card → 4.1 CARD → Speakers (Akiyama Quattro).

MAC



Check that the following options are selected:

- Outputs → HEADPHONES → Master: Chan 1&2 / Headphones: Chan 3&4.
- Sound card → 4-OUT CARD → Akiyama Quattro.

Using this configuration the Virtual DJ master output will be routed to both balanced and unbalanced master outputs and booth output. Virtual DJ headphones output will be routed to the controller headphone connector.

2.2.3. Virtual DJ LE update

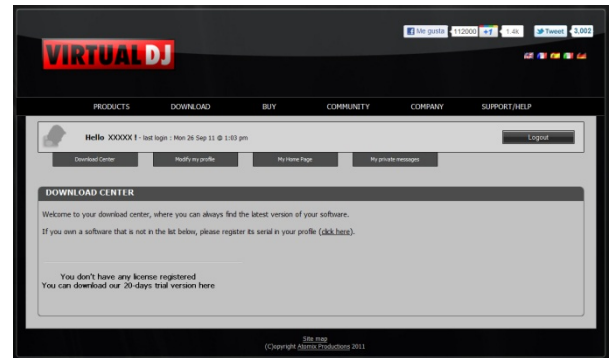
To update your software follow the steps:

-Open web page:

<http://www.virtualdj.com/download/updates.html>

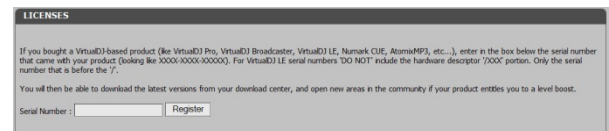
This is VirtualDJ download page.

- Register or fill user name and password to access download. Once you access your account you will see a window as below:

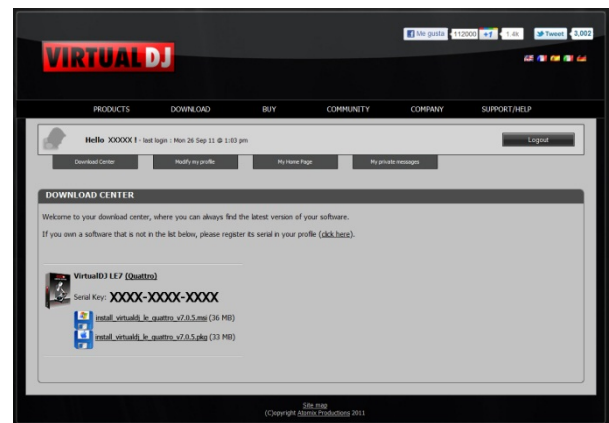


- Click at (click here) to register your software for the first time. At following updates you will directly be directed to the last point.

- Next you will see the window below, fill it with your serial number typed at your CD.



- An icon labelled VirtualDJ LE7 (Quattro) will show up. At this page you can find the available updates for QUATTRO. Download from this page.



2.2.4. Virtual DJ Pro Configuration

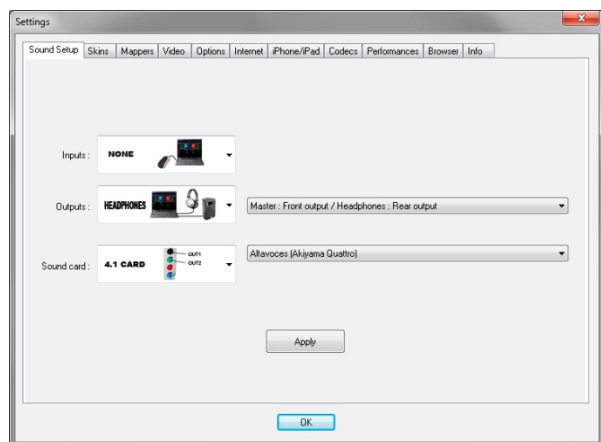
Virtual DJ PRO will automatically recognise QUATTRO controller. Therefore you will only have to configure the sound card.

Windows Configuration

At Virtual DJ we can use the input only if we use ASIO drivers you can download them free from www.akiyamadj.com. Also you can find the drivers at the CD provided with QUATTRO. If you do not use ASIO drivers follow the steps for setting configuring the Outputs:

Select Config/Sound Setup and select the following options:

- Inputs → NONE.
- Outputs → HEADPHONES → Master: Frontal output / Headphones: Rear output.
- Sound card → 4.1 CARD → Speakers: (Akiyama Quattro)



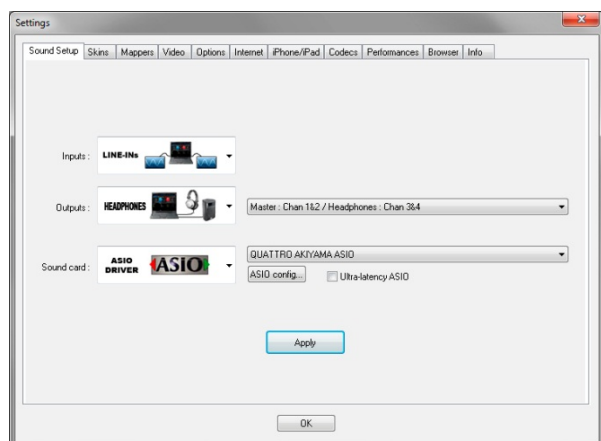
With disregard to the assignation seen at Virtual DJ, for the sound card (IN/OUT) with this configuration we have:

- Virtual DJ Master Out > Rear output connectors.
- Headphones Out > Front headphones connectors.

If we use the ASIO drivers you shall configure Virtual DJ as follows:

Select "Config/Sound Setup" and proceed as follows:

- Inputs → LINE-INS.
- Outputs → HEADPHONES → Master: Chan 1&2 / Headphones: Chan 3&4.
- Sound card → ASIO DRIVER → QUATTRO AKIYAMA ASIO.
- Configure Akiyama ASIO driver as it is explained at part 2.1.2.

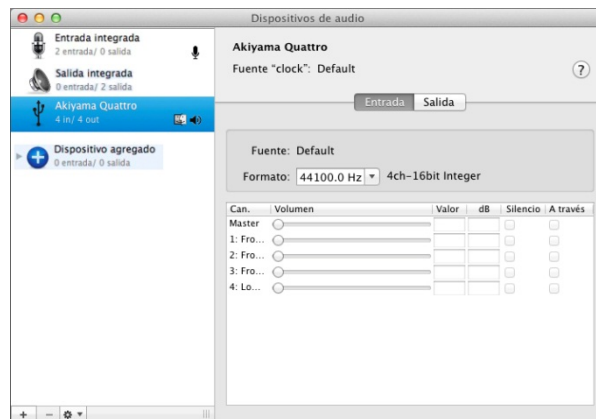


Inputs LINE-INS can be activated switching to Input the INPUT/DECK switch in the front panel.

Starting from a standard configuration you can perform some modifications. If you want to use an external mixer you should select "EXTERNAL MIXER" at Outputs and assign each channel 1&2 and 3&4 to a Deck. To use time code inputs you shall change the option Inputs to TIMECODES (if you are going to use turntables remember to select Phono). If no inputs will be used select NONE. For other configurations read Virtual DJ manual.

MAC Configuration

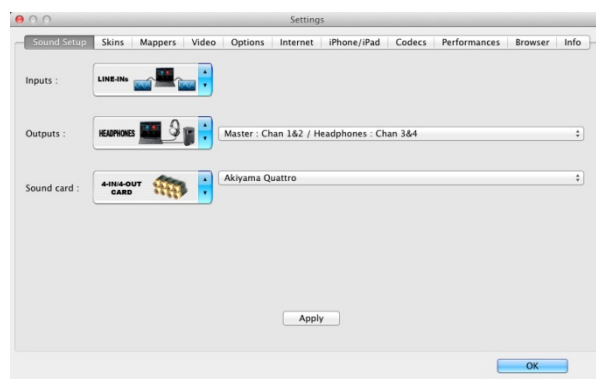
Open the application "Audio MIDI Setup" found at the Utilities folder of your Mac. "Audio MIDI Setup" window will show up.



Your Mac detects QUATTRO as an external device with 4 INs/4 OUTs.

We can use both INs/OUTs upon the desired configuration. Select "Config/Sound Setup" and configure as follows:

- Inputs → LINE-INS.
- Outputs → HEADPHONES → Master: Chan 1&2 / Headphones: Chan 3&4.
- Sound card → 4-IN/4-OUT CARD → Akiyama Quattro.



The inputs "LINE-INS" can be selected switching the INPUT/DECK front panel switch.

In case you want to use an external mixer you should select "EXTERNAL MIXER" at Outputs and assign each channel 1&2 and 3&4 to a Deck. To use time code inputs you shall change the option Inputs to TIMECODES (if you are going to use turntables remember to select Phono). If no inputs will be used select NONE. For other configurations read Virtual DJ manual.

2.3. Traktor

At Quattro box you will find an Overlay purpose designed for TRAKTOR 2.5. All controls functions correspond to the MIDI map that you can find at your CD at Quattro box.

These maps are set to work with 4 Decks. Decks A and B will be "TRACK DECK" type and Decks C and D will be "REMIX DECK" type. It is possible to swap between "REMIX DECK" and "LIVE INPUT" switching the front panel INPUT/DECK switches. More information can be found in the page 5, section 1.2-3of this manual.

2.3.1. Sound Configuration

We recommend using the QUATTRO Akiyama ASIO drivers, when using Windows, you can download them free from www.akiyamadj.com. Also you can find the drivers in the CD provided with QUATTRO.

First you have to select QUATTRO sound card. To do so, access to the "Preferences" window and select "Audio Setup", select "Akiyama Quattro" from the list of "Audio Device" as seen below:

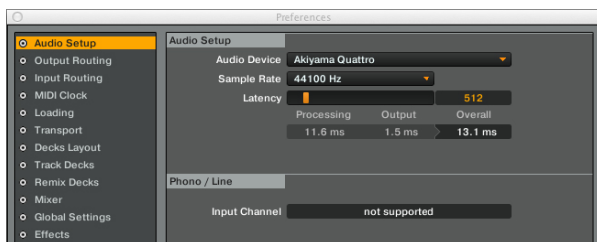


If you like to use the QUATTRO Akiyama ASIO drivers, you must select "QUATTRO AKIYAMA ASIO" and the window will be as below:



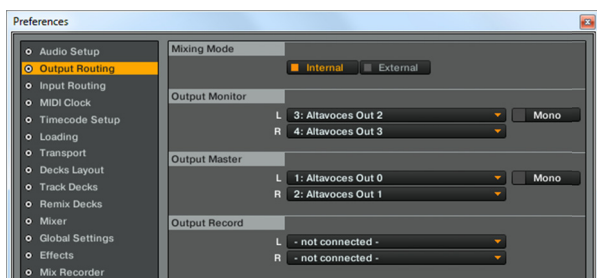
Press "Settings" to configure the QUATTRO Akiyama ASIO drivers according to what have been explained in the point 2.1.2

On MAC, select "Akiyama Quattro" from the list of "Audio Device" as seen below:

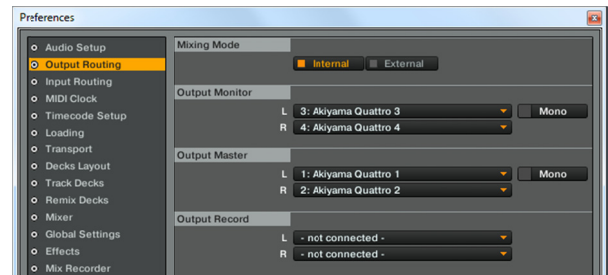


Outputs:

Open the "Preferences" window and select "Output Routing". If "Akiyama Quattro" have been selected as "Audio Device" outputs will be configured as it is shown in the picture:

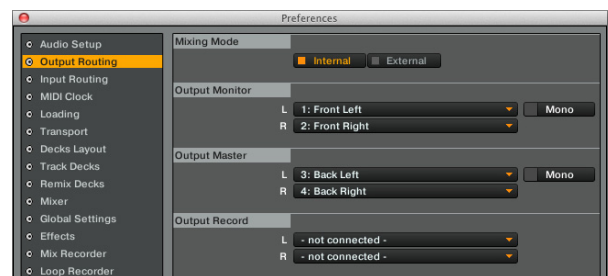


Output Monitor is routed to "Speakers Out" 2 and 3 and Output Master is routed to "Speakers Out" 0 and 1. If "QUATTRO AKIYAMA ASIO" have been selected as "Audio Device" outputs will be configured as follow:



"Akiyama Quattro" 1 and 2 must be assigned to Master and "Akiyama Quattro" 3 and 4 to Monitor.

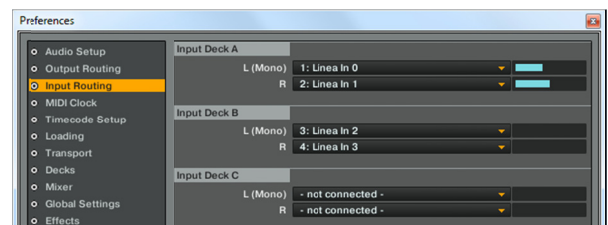
On MAC, Output Monitor is routed to "Front Left" / "Front Right" and Output Master is routed to "Rear Left" / "Rear Right".



For any other configuration read TRAKTOR manual.

Inputs:

If you do not use the QUATTRO Akiyama ASIO driver only one input will be available through the controller which has two physical Inputs. In this case both inputs (Input 1 and Input 2) will act the same. You can use both indistinctively. If you need two different inputs you must use Akiyama ASIO drivers.

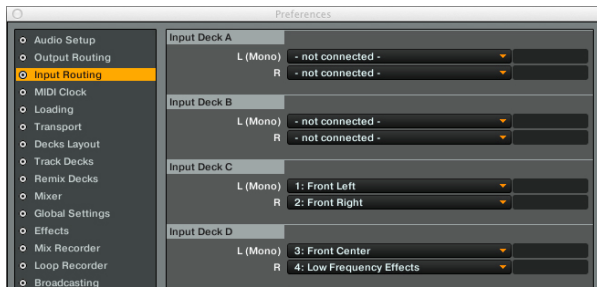


With Akiyama ASIO drivers the Input Routing window will be like below:



"Akiyama Quattro" 1 (INPUT1-L) and 2 (INPUT1-R) must be routed to Input Deck C and "Akiyama Quattro" 3 (INPUT2-L) and 4 (INPUT2-R) to Input Deck D.

On MAC, "Front Left" (INPUT1-L) and "Front Right" (INPUT1-R) must be routed to Input Deck C and "Front Center" (INPUT2-L) and "Low Frequency Effects" (INPUT2-R) to Input Deck D.

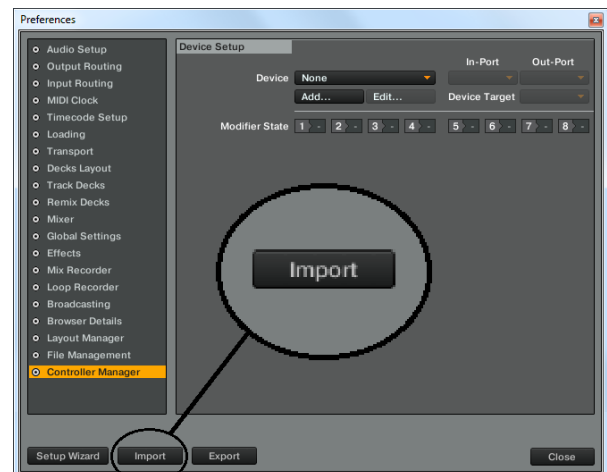


Using this configuration inputs can be activated using the INPUT/DECK switch. However, any INPUT can be associated with any deck and one input can be associated with more than one deck. To activate an input in a deck it is necessary to click the letter of the deck (A, B, C o D) and select “LIVE INPUT”.

2.3.2. Controller Configuration

At Quattro box you will find an Overlay purpose designed for TRAKTOR 2.5. All controls functions correspond to the MIDI map that you can find at your CD at Quattro box. Akiyama QUATTRO has been designed so that it can control TRAKTOR 2.5. It will only be necessary to import the MIDI map (tsi file) that you can find at your CD at Quattro box or at www.akiyamadj.com.

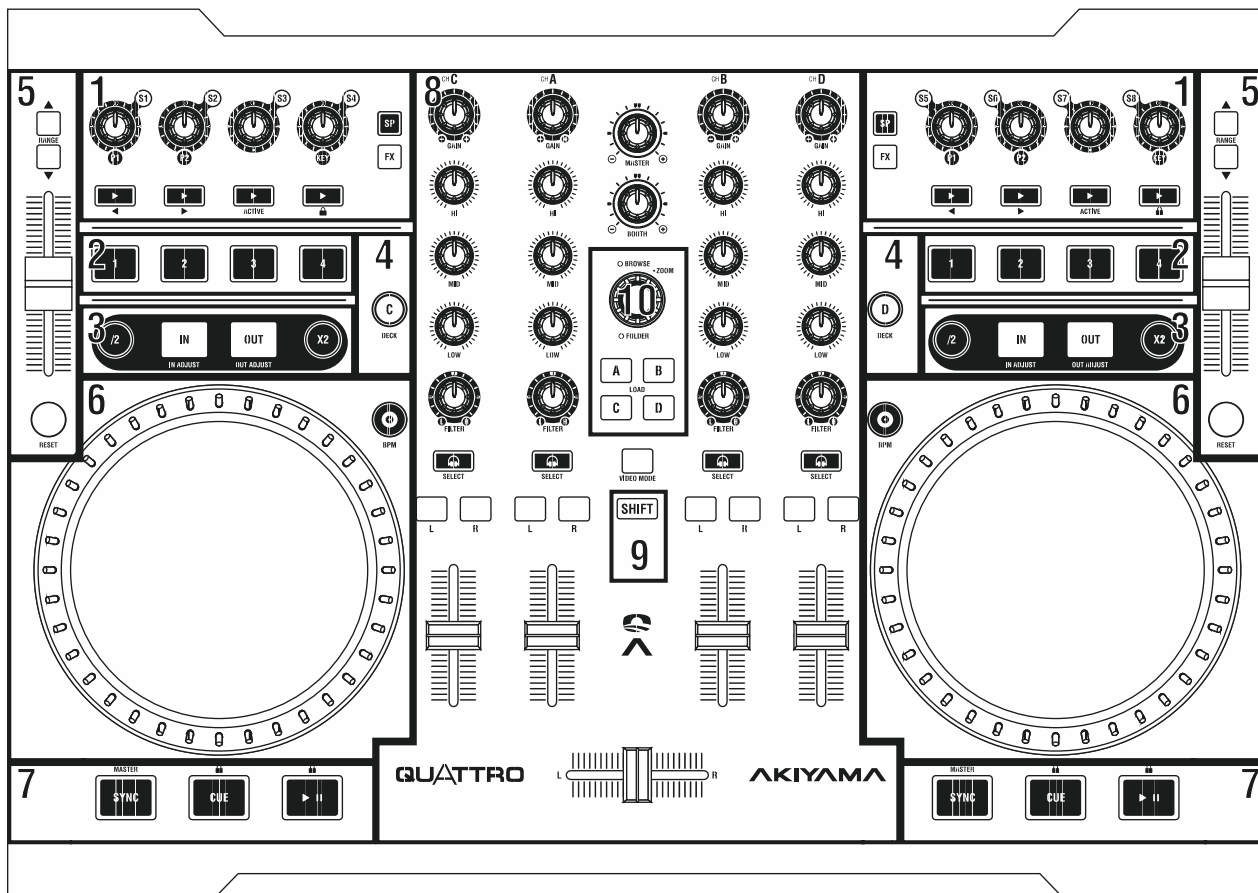
To load these files (MIDI maps) at your TRAKTOR 2 go to Preferences/Controller Manager and press Import.



As you press Import a window with a Browser will appear then you can select the tsi file at the folder where you have the MIDI MAPS.

3. FUNCTIONS AND CONTROLS

3.1. Virtual DJ



1. EFFECTS/SAMPLERS

The controls included in this region can be used to control EFFECTS (FX) as well as SAMPLER (SP). It can be switched between these two modes by pressing the FX and SP buttons.

- Under VIDEO mode (11) press SHIFT + effect select (◀ ▶) and active (ACTIVE) buttons to select and activate a video effect (left deck) or a video transition (right deck).
- Under VIDEO mode (11) press SHIFT + turn the parameter knobs to adjust video transition (right deck) or effect (left deck) parameters.

FX MODE:

- Three parameters of effects can be adjusted by turning parameter (P) knobs.
- Use the buttons to select one effect (◀ ▶) and activate it (ACTIVE).
- Turn the KEY knob to change the song's key. Push the button under the knob (🔑) to look the key.
- Press SHIFT + button to activate/deactivate the following effects: (◀) Echo, (▶) Flanger, (ACTIVE) Beatgrid and (🔑) Flippin Double.

SP MODE:

- Turn a knob to adjust the volume of a sample. Each knob S1/S8 is associated with one sample.
- Play/pause a sample by pressing the Play button (▶) corresponding to the sample number.
- Press SHIFT + button Play (▶) to start/stop recording a sample. The active deck will be recorded.

2. HOTCUE

- A hot cue can be set and stored by pressing any of the 4 numbered cue buttons if the selected cue slot is free (unlit

LED). It is necessary to delete the stored hot cue if any to store a new hot cue.

- Press any cue buttons, which have a cue point stored, to trigger the stored cue.
- Hot cues can be deleted by pressing the cue button while holding the SHIFT button.

3. LOOP

- Set the starting point of a loop by pressing IN button.
- Press OUT button to set the ending point of the loop.
- Press SHIFT + IN to enter in a mode in which the starting point of the loop can be modified, IN ADJUST. The IN button will blink while this mode is active. Turn the jogwheel to modify the starting point. Press SHIFT + IN to exit from the mode. If this mode is active but there is not any loop active, the last loop set loop will be activated when the jogwheel is turned.
- Press SHIFT + OUT to enter in a mode in which the ending point of the loop can be modified, OUT ADJUST. The performance of this mode is equivalent to the IN ADJUST mode but in this case the ending point is adjusted.
- Halve or double the loop size pressing the buttons /2 and x2.
- Press SHIFT+ /2 to move left the loop the same size the loop has and SHIFT+ X2 to move right.

4. DECK SELECT

Switch between decks A/C and decks B/D.

5. TEMPO

- Use the Pitch Fader to control the deck's tempo.
- Tempo Range can be selected by pressing the RANGE buttons. The following values can be set: 12% (LEDs off) 16% (lower LED on) 25% (upper LED on) and 100% (LEDs on).

- Press SHIFT + lower RANGE button (▼) to activate/deactivate Smart loop (🔒).
- Press the button labelled with a padlock (🔒) to lock/unlock the pitch sliders on both decks so both will move together.
- Reset the tempo by pressing SHIFT + button labelled with a padlock (🔒).

6. JOGWHEEL

- Press SCRATCH button (🌀) to toggle the wheel mode between CDJ and VINYL.
- Use the jogwheel to scratch or modify the pitch bend.
- Use SHIFT + jogwheel to search through the track.
- Under VIDEO mode (11) press SHIFT + turn jogwheel to adjust the parameter of the effect.

7. TRANSPORT

- Press Play/Pause button to start/stop playback of deck.
- Press SHIFT + Play/Pause to activate/deactivate Smart play (🔒).
- If song is paused, set a new cue point or if you are in the cue point position, play track from the cue point by pressing the CUE button and returns to cue point when released. If song is playing, press CUE to pause the reproduction and jump to the last cue point.
- Use SHIFT + CUE to activate/deactivate Smart Cue (🔒).
- Use the SYNC button to match the BPMs of different tracks.
- Press SHIFT + SYNC to set to master the deck in which it has been pressed.

8. MIXER

- Adjust the deck volume by turning the gain knob.
- Tweak the sound using the 3-Band EQ.
- Turn the FILTER knob to apply a resonant filter. Turn right to apply the high pass filter and left for the low-pass filter.
- Turn the MASTER knob to adjust the volume of the master signal.
- Turn the BOOTH knob to adjust the volume of the booth signal.

- Select the deck that must be pre-listened by pressing the Monitor buttons (👁️).
- Press SHIFT + Monitor button (👁️) to select the “working deck”. The beat of the working deck will be shown in front in the display and shortcuts and actions with no specified deck will affect this deck.
- Use the Linefader and Crossfader for mixing.
- Press L to assign the channel to the left of the crossfader.
- Press R to assign the channel to the right of the crossfader.

9. SHIFT

The Shift Button provides a second function to the controls.

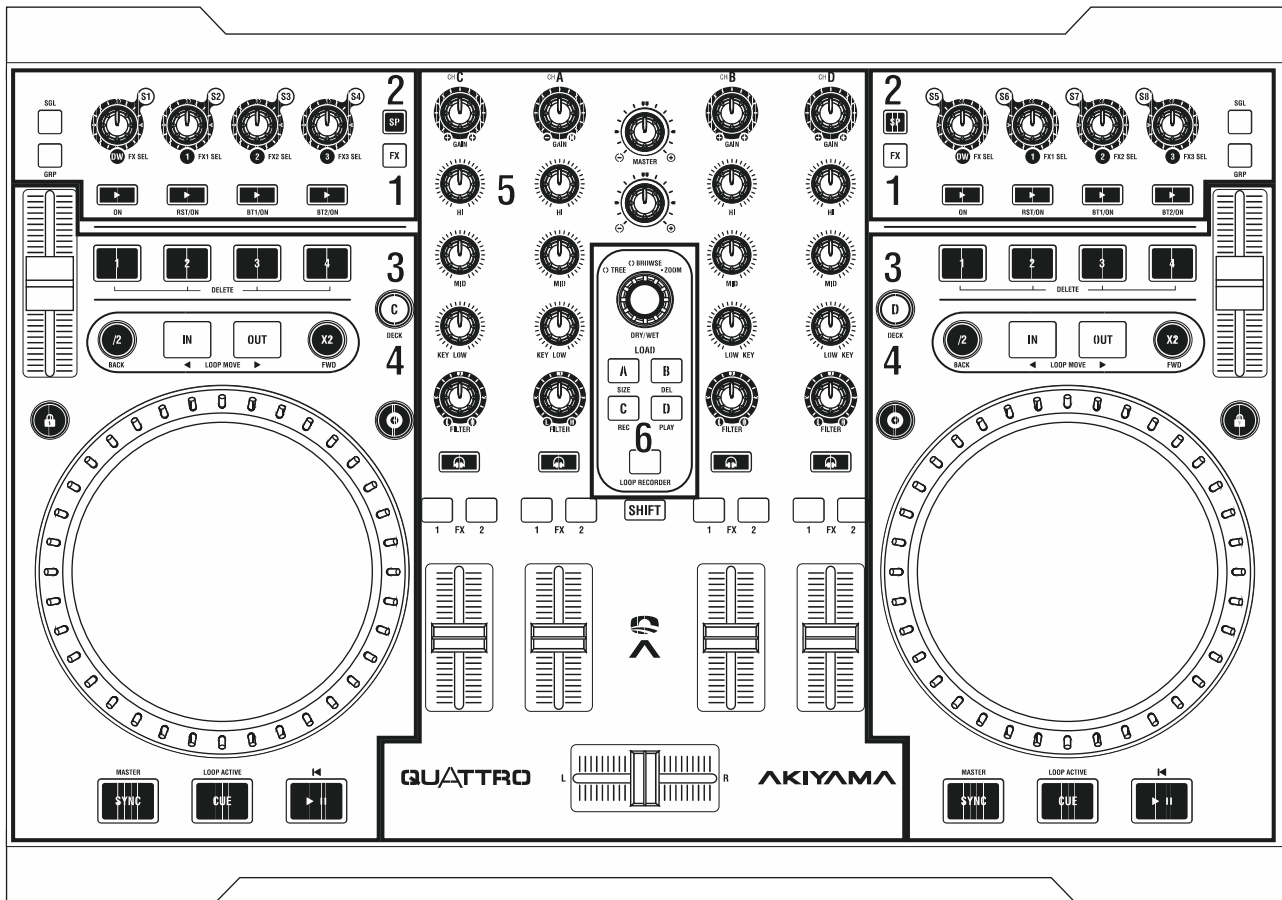
10. BROWSER

- Under VIDEO mode (11) press SHIFT + LOAD A to perform video transition to left deck appropriately (Press the button twice to instantly transition).
- Under VIDEO mode (11) use SHIFT + LOAD B to perform video transition to right deck appropriately (Press the button twice to instantly transition).
- Under VIDEO mode (11) use SHIFT + LOAD C to move the video crossfader automatically.
- Under VIDEO mode (11) press SHIFT + LOAD D to link or unlink the video crossfader to the audio crossfader.
- Turn the encoder to scroll through the songs.
- Press SHIFT + turn the encoder to scroll through the folders (focus change from songs to folders).
- Load the song to the active deck by pressing LOAD buttons.
- Holding LOAD A|B|C|D unloads song.
- Press the encoder to add the song to playlist, if focus is in songs. If focus is in folders expand or collapse the folders.
- Press SHIFT + encoder to open or close the subfolders of the selected folder when focus is on folders. If focus is in songs, press it to zoom or unzoom the browser to be displayed on the whole window.

11. VIDEO MODE

- Switch the mixer section between mixer and video by pushing VIDEO MODE.

3.2. Traktor PRO 2



1. EFFECTS

This area provides full control over SINGLE and GROUP operating modes of the Traktor FX units.

- FX: This button enables the FX mode.
- SGL: Select single (SGL) layout.
- Shift (ZOOM IN):** Expands the waveform making Zoom in.
- GRP: Select group (GRP) layout.

Shift (ZOOM OUT): Reduces the waveform making Zoom out.

SINGLE MODE (SGL):

- DRY/WET: You can modify the proportion of effect.
- Shift (FX SEL.):** Choose one effect from the list.
- 1st, 2nd & 3rd KNOB: You can modify the 1st, 2nd & 3rd parameter of the selected effect.
- ON: FX unit ON/OFF.
- Shift (FX SEL.):** Select the next effect from the list.
- RST/ON: Sets the defaults settings.
- BT1/ON: 1st button function ON/OFF. This function depends on the effect you have selected.
- BT2/ON: 2nd button function ON/OFF. This function depends on the effect you have selected.

GROUP MODE (GRP):

- DRY/WET (DW): You can modify the proportion of effect. In this case, the effect is the result of the three chained effects.
- 1st, 2nd & 3rd KNOB: You can modify the proportion of the 1st, 2nd & 3rd effect of the unit.
- Shift (FX SEL.):** Choose one effect from the list.
- ON: No function.
- RST/ON: 1st effect ON/OFF.
- Shift (FX 1 SEL.):** Select the next effect from the list.
- BT1/ON: 2nd effect ON/OFF.
- Shift (FX 2 SEL.):** Select the next effect from the list.
- BT2/ON: 3rd effect ON/OFF.
- Shift (FX 3 SEL.):** Select the next effect from the list.

2. SAMPLER

When you select SAMPLE mode, this group of buttons allows you to control the main samples functions. In addition, more functions can be controlled by selecting the Deck C (you can find more info in REMIX DECK section).

- SP: This button enables the SAMPLER mode.
- S1~S4: You can modify the slots volume of the REMIX DECK by these 4 knobs.

Shift (FILTER): You can modify the slots filter of the REMIX DECK by these 4 knobs.

- PLAY BUTTONS (■): The buttons of this section represent the slots of REMIX DECK. Each one has different functions depending on the slot state.

Slot playing: Mute the slot.

Slot stopped: Start the slot playback.

Empty slot: You can load the loop from the TRACK DECK (Deck A / Deck B).

Shift (Stop/Delete/Load From List): Under shift, these buttons also have a different behaviour depending on the slot state.

Slot playing: Stop the slot.

Slot stopped: Unload the sample.

Empty slot: Load one sample from tracklist.

3. TRACK DECK

- PITCH FADER: You can modify the deck tempo.

- 1-4 BUTTONS: The buttons of this section allow you to set 4 hotcues.

Shift (DELETE HOTCUE): You can delete the hotcue of that button.

- DECK: Switch between TRACK DECK (Deck A) and REMIX DECK (Deck C). Led on indicates that we are controlling the Deck C.

- /2: Halves the loop size.

Shift (Beatjump Back): Backward the playback.

- IN: Set the starting point of a loop.

Shift (Loop Move Back): Backward the loop. The moves will be according to the loop size.

- OUT: Set the ending point of a loop.

Shift (Loop Move Forward): Forward the loop. The moves will be according to the loop size.

- X2: Doubles the loop size.

Shift (Beatjump Forward): Forward the playback.

- KEYLOCK (🔒): If on, you can change the tempo of the deck keeping the original tone.

- SCRATCH (🌀): Scratch mode ON/OFF.

- JOG WHEEL: Turn the wheel to modify the tempo of the song or to Scratch.

Shift (Seek): Turn to seek through the track quickly.

- SYNC: Match the BPM of the different tracks

Shift (MASTER): Set as master the TRACK DECK.

- CUE: Skip to the last set cue point.

Shift (LOOP ACTIVE): Active function enabled. This function is enabled automatically when a loop has been established.

- PLAY/PAUSE: Start or stop the playback.

Shift (Skip): Skip to the beginning of the track.

4. REMIX DECK

- PITCH FADER: You can modify the REMIX DECK tempo.

- 1~4 BUTTONS This group of buttons allows you to activate one or all the slots of the REMIX DECK. When a slot is active the corresponding led is lit and you can modify or perform functions such as Volume, Filter, Pitchbend, Play / Pause, Key Lock, Sync or Unload. To activate a slot you have to press the corresponding button, so that: The button 1 corresponds to the 1st slot, the button 2 to 2nd slot, and so on. To enable all the slots, you have to press the button corresponding to the active slot (lit button). In this case, you can see that the 4 buttons are lit.

Shift (COPY FROM LOOP REC.): Copy the loop set in Loop Recorder section.

- DECK: Switch between TRACK DECK (Deck A) and REMIX DECK (Deck C). Led on means that we are controlling the Deck C.

- /2: Halves the sample size of the active slot.

- IN: Reset function. Restore the default size of the active slot.

- OUT: Play Mode function. Switch the playback mode of the active slot. The two modes of operation are: Single shoot or Looped.

- X2: Doubles the sample size of the active slot.

- KEYLOCK (🔒): If on, you can change the tempo of the deck keeping the original tone.

- SCRATCH (🌀): Scratch mode ON/OFF.

- JOG WHEEL: Turn the wheel to modify the tempo of the REMIX DECK or to Scratch.

- SYNC: Match the BPM of different tracks.

Shift (MASTER): Set as master the REMIX DECK.

- CUE: Skip to the last set cue point.

Shift (LOOP ACTIVE): Active function enabled. This function is enabled automatically when a loop has been established.

- PLAY/PAUSE: Start or stop the REMIX DECK playback.

Shift (PLAY GROUP): Start the playback of all slots of the REMIX DECK at the same time.

5. MIXER

- SHIFT: The Shift Button provides a second function to the controls.

- MASTER: Turn this knob to adjust the volume of the master signal.

- BOOTH: Turn this knob to adjust the volume of the booth output.

- GAIN: You can modify the gain channel.

- Hi: You can modify the high frequencies of the channel.

- MID: You can modify the mid frequencies of the channel.

- LOW: You can modify the low frequencies of the channel.

Shift (KEY): Turn the knob to change the track tone.

- FILTER: You can modify the channel filter. Turn left to allow low frequencies (LPF) or turn right to allow high frequencies (HPF).

- MONITOR CUE (🎧): Select the channel that must be monitored to the headphones output.

Shift (FILTER ON): Filter function ON/OFF.

- FX1 & FX2: Enable FX units on each deck.

Shift (FX SLOT): Enable FX units on each slot of the REMIX DECK. Channel A & C buttons allow to enable DECK C, and channel B & D buttons allow to enable DECK D.

- BROWSE: Turn the knob to scroll through the tracklist, and press it to expand the tracklist.

Shift (TREE): Turn the knob to scroll through the folder list, and press it to expand/collapse the folders.

- LOAD A-B: Load the selected track from the tracklist into the TRACK DECK (Deck A/B).

- LOAD C-D: Load the selected sample/track from the tracklist into the slot active (Deck C/D).

6. LOOP RECORDER

- LOOP RECORDER: This button works as modifier of this area, so that, with the LOAD buttons (A, B, C y D) and BROWSE knob you can control functions of the Loop Recorder section.

- LOOP RECORDER + BROWSE (DRY/WET): Turn the knob while holding LOOP RECORDER to adjust the proportion between main signal and recorded signal.

- LOOP RECORDER + LOAD A (SIZE): Press this button while holding LOOP RECORDER to change the loop size.

- LOOP RECORDER + LOAD B (DEL): Press this button while holding LOOP RECORDER to delete the section loop.

- LOOP RECORDER + LOAD C (REC): Press this button while holding LOOP RECORDER to start the recording.

- LOOP RECORDER + LOAD D (PLAY): Press this button while holding LOOP RECORDER to start or stop the playback of the loop.

4. APENDIX

4.1. MIDI Specification

A DJ Software have the “mapping” function that assigns MIDI messages to the different functions of the DJ Software.

We also have to match the DJ Software functions with the controls of the external device (the controller). We do so by assigning the DJ Software function and the control the same MIDI note or message.

Every QUATTRO control generates various MIDI messages you can see at the table QUATTRO MIDI MAP. We can send the MIDI messages through channels 0 to 15, this is a MIDI standard. We can see four different parts on a MIDI message:

- The MIDI code (MIDI CODE) lets us know what type of message is sent.
- The MIDI code (MIDI CODE) + Channel lets us know what type of message is sent again and the channel which it is sent through.
- The FUNCTION CODE gives us the note or control value.
- The action let us know the value that the control attains when is manipulated.

At the table those parts are separated by commas in the MIDI COMMAND columns.

DJ Software's use two types of MIDI codes:

- “Control Note” (switch): the control is a switch (you see a button) or a LED and will look like NOTE C2. Each note has a number that at the table is expressed in Hexadecimal (HEX). Further on this manual we will explain how notes and numbers correspond to each other and how to change from hexadecimal to decimal. In this case MIDI CODE is 9 and FUNCTION CODE is the note of the control.

- “Control Change” (CC): the control will be a potentiometer or encoder and will have a label like Cc53. In this case MIDI CODE is B and FUNCTION CODE is a value between 0 and 127. We will associate a value to each control of the kind.

Upon the value of the action part of the MIDI message we will classify the controls as follows:

a- NOTE-KEY: are note type messages. Action value can be 127 (7FH) when we press or 0 when we release.

b- NOTE-LED: determines the LED that will light, are note type messages as the switches and the values are 127 for LED ON and 0 for LED OFF. In the LEDs case it is the DJ Software that sends the MIDI messages to the controller.

c- CC-ABSOLUTE (VR) - CC “Control Change” Absolute. These are potentiometer like controls. The action value is a number between 0 and 127 upon the potentiometer position.

d- CC-RELATIVE (ENCODER/WHEEL) - CC “Control Change” Relative. These are encoder like controls. As oppose to the potentiometer that encoder does not send a message to report its position but only report changes when turning to clockwise or anticlockwise. It is sent the value 63 (3FH) if it turns to the left and 65 (41H) if it turns to the right.

e- CC-LEVEL LED. The value sent in the action from 0 to 127 will tell how many LEDs have to be turned ON at the vu-meter. There are DJ Software's where it is not necessary to know note values or control values because the software “read” them automatically and by touching a control it assigns its note to a certain function selected by the user.

In other Software's it is necessary to write by hand the values. Even in Software's with auto learn function you must write/select the LEDs. Therefore, we recommend you try understanding the QUATTRO MIDI MAP table.

Note: the MIDI MAP is presented in hexadecimal base > NOTE or CC. To assign physical control to software functions you need to translate the MIDI MAP into decimal base.

Following, we explain how to find out the equivalence between Hexadecimal and Decimal:

	0H	1H	2H	3H	4H	5H	6H	7H	8H	9H	AH	BH	CH	DH	EH	FH
0H	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1H	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
2H	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
3H	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
4H	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
5H	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
6H	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
7H	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
8H	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
9H	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
AH	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
BH	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
CH	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
DH	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
EH	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
FH	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

To translate a 2 digit Hexadecimal base number into a Decimal base we have to:

- find the column that has the digit that appears at the left.
- find the row that has the right digit.
- the convergence of row and column is the equivalent Decimal number.

Inversely to translate a Decimal base number into a Hexadecimal base we have to:

- find the number at the table. Its column is the first hexadecimal digit, the second hexadecimal digit is it row.

E.g. Play control MIDI address is 33. Find the Decimal equivalence at the Hexa-Dec table: Column 4 / Row 4 it is decimal number 51.

Some softwares require not only knowing the decimal value but also the corresponding note (for control change the decimal number is enough). We can perform the Note-Decimal number equivalence using the following table:

Octave #	Note Numbers											
	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
-1	0	1	2	3	4	5	6	7	8	9	10	11
0	12	13	14	15	16	17	18	19	20	21	22	23
1	24	25	26	27	28	29	30	31	32	33	34	35
2	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59
4	60	61	62	63	64	65	66	67	68	69	70	71
5	72	73	74	75	76	77	78	79	80	81	82	83
6	84	85	86	87	88	89	90	91	92	93	94	95
7	96	97	98	99	100	101	102	103	104	105	106	107
8	108	109	110	111	112	113	114	115	116	117	118	119
9	120	121	122	123	124	125	126	127				

To find the note associated to a decimal number just take the column where the number is as the note and the row is the octave. Following the example presented before the corresponding note to Play (decimal 51) button is D#3.

As seen at SHIFT+ column of the MIDI table, some QUATTRO controls can send two different messages upon the state of the Shift button.

The MIDI note associated with the same control of two different decks is the same but notes are sent through different MIDI channels. Deck A messages are sent through the channel 0, deck B through the channel 1 and so on. Mixer messages are sent through the channel 4.

QUATTRO MIDI MAP			
BUTTON	MIDI COMMAND	MIDI COMMAND	SHIFT+
KEY & KNOB			
LEFT and RIGHT DECK			
RANGE_UP	09,9x,20,7F	09,9x,20,00	
RANGE_DOWN	09,9x,21,7F	09,9x,21,00	
SP	09,9x,22,7F	09,9x,22,00	
FX	09,9x,23,7F	09,9x,23,00	
VOL1	0B,Bx,11,00(Minimun)	0B,Bx,11,7F(Maximum)	
VOL2	0B,Bx,12,00(Minimun)	0B,Bx,12,7F(Maximum)	
VOL3	0B,Bx,13,00(Minimun)	0B,Bx,13,7F(Maximum)	
VOL4	0B,Bx,14,00(Minimun)	0B,Bx,14,7F(Maximum)	
PLAY1	09,9x,24,7F	0B,Bx,14,7F(Maximum)	
PLAY2	09,9x,25,7F	09,9x,25,00	45
PLAY3	09,9x,26,7F	09,9x,26,00	46
PLAY4	09,9x,27,7F	09,9x,27,00	47
HOT_CUE1	09,9x,28,7F	09,9x,28,00	
HOT_CUE2	09,9x,29,7F	09,9x,29,00	
HOT_CUE3	09,9x,2A,7F	09,9x,2A,00	
HOT_CUE4	09,9x,2B,7F	09,9x,2B,00	
IN	09,9x,2D,7F	09,9x,2B,00	
OUT	09,9x,2E,7F	09,9x,2E,00	
SCRATCH	09,9x,2F,7F	09,9x,2F,00	
PITCH_LOCK	09,9x,30,7F	09,9x,30,00	
SYNC	09,9x,31,7F	09,9x,31,00	51
CUE	09,9x,32,7F	09,9x,32,00	52
PLAY_PAUSE	09,9x,33,7F	09,9x,33,00	53
PITCH	0E,Ex,3,00(Minimun)	0E,Ex,3,7F(Maximum)	
/2	09,9x,35,7F	09,9x,35,00	
X2	09,9x,36,7F	09,9x,36,00	
DECK SELECT	09,9x,37,7F	09,9x,37,00	
JOG_TOUCH	09,9x,3B,7F	09,9x,3B,00	
JOG	0B,Bx,10,41++(Forward)	0B,Bx,10,3F--(Reverse)	
MIXER and CENTRAL DECK			
GAIN (CH A)	0B,B4,21,00(Minimun)	0B,B4,21,7F(Maximum)	
EQ_HIGH (CH A)	0B,B4,22,00(Minimun)	0B,B4,22,7F(Maximum)	
EQ_MID (CH A)	0B,B4,23,00(Minimun)	0B,B4,23,7F(Maximum)	
EQ_LOW (CH A)	0B,B4,24,00(Minimun)	0B,B4,24,7F(Maximum)	
FILTER (CH A)	0B,B4,25,00(Minimun)	0B,B4,25,7F(Maximum)	
FADER (CH A)	0B,B4,26,00(Minimun)	0B,B4,26,7F(Maximum)	
GAIN (CH A)	0B,B4,27,00(Minimun)	0B,B4,27,7F(Maximum)	
EQ_HIGH (CH B)	0B,B4,28,00(Minimun)	0B,B4,28,7F(Maximum)	
EQ_MID (CH B)	0B,B4,29,00(Minimun)	0B,B4,29,7F(Maximum)	
EQ_LOW (CH B)	0B,B4,2A,00(Minimun)	0B,B4,2A,7F(Maximum)	
FILTER (CH B)	0B,B4,2B,00(Minimun)	0B,B4,2B,7F(Maximum)	
FADER (CH B)	0B,B4,2C,00(Minimun)	0B,B4,2C,7F(Maximum)	
GAIN (CH B)	0B,B4,2D,00(Minimun)	0B,B4,2D,7F(Maximum)	

QUATTRO MIDI MAP			
BUTTON	MIDI COMMAND	MIDI COMMAND	SHIFT+
EQ_HIGH (CH C)	0B,B4,2E,00(Minimun)	0B,B4,2E,7F(Maximum)	
EQ_MID (CH C)	0B,B4,2F,00(Minimun)	0B,B4,2F,7F(Maximum)	
EQ_LOW (CH C)	0B,B4,30,00(Minimun)	0B,B4,30,7F(Maximum)	
FILTER (CH C)	0B,B4,31,00(Minimun)	0B,B4,31,7F(Maximum)	
FADER (CH C)	0B,B4,32,00(Minimun)	0B,B4,32,7F(Maximum)	
GAIN (CH C)	0B,B4,33,00(Minimun)	0B,B4,33,7F(Maximum)	
EQ_HIGH (CH D)	0B,B4,34,00(Minimun)	0B,B4,34,7F(Maximum)	
EQ_MID (CH D)	0B,B4,35,00(Minimun)	0B,B4,35,7F(Maximum)	
EQ_LOW (CH D)	0B,B4,36,00(Minimun)	0B,B4,36,7F(Maximum)	
FILTER (CH D)	0B,B4,37,00(Minimun)	0B,B4,37,7F(Maximum)	
FADER (CH D)	0B,B4,38,00(Minimun)	0B,B4,38,7F(Maximum)	
MASTER	0B,B4,39,00(Minimun)	0B,B4,39,7F(Maximum)	
BROWSER	09,94,60,7F	09,94,60,00	
ENC_BROWSER	0B,B4,05,41(Increment)	0B,B4,05,3F(Decrement)	
LOAD (CH A)	09,94,61,7F	09,94,61,00	
LOAD (CH B)	09,94,62,7F	09,94,62,00	
LOAD (CH C)	09,94,63,7F	09,94,63,00	
LOAD (CH D)	09,94,64,7F	09,94,64,00	
VIDEO_MODE	09,94,65,7F	09,94,65,00	
PFL (CH A)	09,94,66,7F	09,94,66,00	
PFL (CH B)	09,94,67,7F	09,94,67,00	
PFL (CH C)	09,94,68,7F	09,94,68,00	
PFL (CH D)	09,94,69,7F	09,94,69,00	
L (CH A)	09,94,6A,7F	09,94,6A,00	
R (CH A)	09,94,6B,7F	09,94,6B,00	
L (CH B)	09,94,6C,7F	09,94,6C,00	
R (CH B)	09,94,6D,7F	09,94,6D,00	
L (CH C)	09,94,6E,7F	09,94,6E,00	
R (CH C)	09,94,6F,7F	09,94,6F,00	
L (CH D)	09,94,70,7F	09,94,70,00	
R (CH D)	09,94,71,7F	09,94,71,00	
SHIFT	09,94,72,7F	09,94,72,00	
CH3_THRU	09,94,73,7F	09,94,73,00	
CH4_THRU	09,94,74,7F	09,94,74,00	
FADER_CURVE	09,94,75,7F	09,94,75,00	
HEADPHONE_MIX	0B,B4,3A,00(Minimun)	0B,B4,3A,7F(Maximum)	
HEADPHONE_VOLUME	0B,B4,3B,00(Minimun)	0B,B4,3B,7F(Maximum)	
CROSSFADER	0E,E4,3,00(Minimun)	0E,E4,3,7F(Maximum)	
TOUCH SENSOR (left deck)	0B,B5,10,00(Minimun)	0B,B5,10,7F(Maximum)	
TOUCH SENSOR (right deck)	0B,B5,20,00(Minimun)	0B,B5,20,7F(Maximum)	

QUATTRO MIDI MAP		
LEDs	LED ON	LED OFF
LEDS		
LEFT and RIGHT DECK		
PLAY1	09,9x,24,7F	09,9x,24,00
PLAY2	09,9x,25,7F	09,9x,25,00
PLAY3	09,9x,26,7F	09,9x,26,00
PLAY4	09,9x,27,7F	09,9x,27,00
HOT_CUE1	09,9x,28,7F	09,9x,28,00
HOT_CUE2	09,9x,29,7F	09,9x,29,00
HOT_CUE3	09,9x,2A,7F	09,9x,2A,00
HOT_CUE4	09,9x,2B,7F	09,9x,2B,00
IN	09,9x,2D,7F	09,9x,2D,00
OUT	09,9x,2E,7F	09,9x,2E,00
SCRATCH	09,9x,2F,7F	09,9x,2F,00
PITCH_LOCK	09,9x,30,7F	09,9x,30,00
SYNC	09,9x,31,7F	09,9x,31,00
CUE	09,9x,32,7F	09,9x,32,00
PLAY_PAUSE	09,9x,33,7F	09,9x,33,00
/2	09,9x,34,7F	09,9x,34,00
X2	09,9x,35,7F	09,9x,35,00
SP (right deck)	09,9x,3A,7F	09,9x,3A,00
FX (right deck)	09,9x,3B,7F	09,9x,3B,00
RANGE_UP (right deck)	09,9x,3C,7F	09,9x,3C,00
RANGE_DOWN (right deck)	09,9x,3D,7F	09,9x,3D,00
RANGE_UP (left deck)	09,9x,3A,7F	09,9x,3A,00
RANGE_DOWN (left deck)	09,9x,3B,7F	09,9x,3B,00
SP (left deck)	09,9x,3C,7F	09,9x,3C,00
FX (left deck)	09,9x,3D,7F	09,9x,3D,00
MIXER and CENTRAL DECK		
PFL (CH A)	09,94,66,7F	09,94,66,00
PFL (CH B)	09,94,67,7F	09,94,67,00
PFL (CH C)	09,94,68,7F	09,94,68,00
PFL (CH D)	09,94,69,7F	09,94,69,00
L (CH A)	09,94,6A,7F	09,94,6A,00
R (CH A)	09,94,6B,7F	09,94,6B,00
L (CH B)	09,94,6C,7F	09,94,6C,00
R (CH B)	09,94,6D,7F	09,94,6D,00
L (CH C)	09,94,6E,7F	09,94,6E,00
R (CH C)	09,94,6F,7F	09,94,6F,00
L (CH D)	09,94,70,7F	09,94,70,00
R (CH D)	09,94,71,7F	09,94,71,00
SHIFT	09,94,72,7F	09,94,72,00

4.2. Technical Specifications

ANALOG:

Output level:

Unbalanced Outputs (Master, RCA): 1.2V+-0.2V

Balanced Outputs (XLR): 1.2V+-0.2V

Unbalanced Outputs (Booth, RCA): 1.2V+-0.2V

Headphone Output (1/8", 1/4"): 600mV (32 ohm load)

SNR (Full Signal Path):

Balanced Outputs (XLR): > 80 dB (A-weighted)

Unbalanced Outputs (Master, RCA): > 80 dB (A-weighted)

Unbalanced Outputs (Booth, RCA): > 80 dB (A-weighted)

Headphone Outputs (1/8", 1/4"): > 80 dB (A-weighted)

THD+N:

Balanced Outputs (XLR): < 0.03%

Unbalanced Outputs (Master, RCA): < 0.03%

Unbalanced Outputs (Booth, RCA): < 0.03%

Headphone Outputs (1/8", 1/4"): < 0.03%

Crosstalk: > 80 dB

Frequency Response: 20 Hz - 20 KHz (+/- 1.5 dB)

DIGITAL:

Sample Rate: 44.1 KHz

Bit Depth: 16-bit

POWER:

7.5V DC, 2A

PHYSICAL:

Dimensions (LxWxH): 474mm x 334mm x 68mm

Weight: 2.68kg



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